Translation

PATENT COOPERATION TREATY

PCT/EP2003/012918

PCT

537,521

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

A								
Applicant's or agent's file reference 41 398.re.sev	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/							
International application No. PCT/EP2003/012918	International filing date (day/n 19 November 2003 (19		Priority date (day/month/year) 05 December 2002 (05.12.2002)					
International Patent Classification (IPC) or national classification and IPC C21D 11/00								
Applicant SMS DEMAG AKTIENGESELLSCHAFT								
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total of sheets.								
3. This report contains indications relating to the following items:								
I Basis of the report	I Basis of the report							
II Priority	II Priority							
III Non-establishment of	f opinion with regard to novelty	, inventive ste	p and industrial applicability					
IV Lack of unity of inve	IV Lack of unity of invention							
V Reasoned statement u	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;							
VI Certain documents ci			·					
VII Certain defects in the	VII Certain defects in the international application							
VIII Certain observations on the international application								
Date of submission of the demand		Date of completion of this report						
22 June 2004 (22.06.2004)		10 M	Iarch 2005 (10.03.2005)					
Name and mailing address of the IPEA/EP		Authorized officer						
Facsimile No.	Telepho	ne No.						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/012918

	of the report							
1. With	regard to the elements of the international application:*							
	the international application as originally filed							
	the description:							
	pages 1-6	, as originally filed						
	pages	, filed with the demand						
		the letter of						
	the claims:							
	pages	, as originally filed						
1	pages, as an							
	pages	, filed with the demand						
l	pages 1-5 , filed with	n the letter of02 March 2005 (02.03.2005)						
📖	the drawings:	-						
	pages	, as originally filed						
	pages	, filed with the demand						
	pages, filed with							
	he sequence listing part of the description:							
	•							
	#0.000							
	pages, filed with	, filed with the demand						
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:								
	the language of a translation furnished for the purposes of international							
	the language of publication of the international application (under Rule	, , , , , , , , , , , , , , , , , , , ,						
	the language of the translation furnished for the purposes of internation 55.3).							
3. With preli	regard to any nucleotide and/or amino acid sequence disclosed minary examination was carried out on the basis of the sequence listing:	in the international application, the international						
	contained in the international application in written form.							
	filed together with the international application in computer readable fo	rm.						
	furnished subsequently to this Authority in written form.							
	furnished subsequently to this Authority in computer readable form.							
	The statement that the subsequently furnished written sequence linternational application as filed has been furnished.	isting does not go beyond the disclosure in the						
	The statement that the information recorded in computer readable for been furnished.	orm is identical to the written sequence listing has						
4. 🗌	The amendments have resulted in the cancellation of:							
	the description, pages							
l	the claims, Nos.							
	the drawings, sheets/fig							
5. 🗌	This report has been established as if (some of) the amendments had no beyond the disclosure as filed, as indicated in the Supplemental Box (Ru	ot been made, since they have been considered to go le 70.2(c)).**						
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).								
** Any i	** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							

'INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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YES

NO

1-5

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty (N)	Claims	2-4	YES		
		Claims	1,5	NO		
	Inventive step (IS)	Claims		YES		
		Claims	1-5	NO		

2. Citations and explanations

Industrial applicability (IA)

 D1: EP-A 829 548, abstract and column 3, lines 27-35, describes

Claims

Claims

- a method for regulating water cooling in a unit for hot rolling hot-rolled strips or heavy plate made of steel within the Austenite temperature range,
- (ii) the speed and temperature of the rolling stock being measured when the rolling stock is discharged from the last roll stand, and
- (iii) the cooling speed and the quantity and distribution of the cooling water in the rolling or cooling section being varied as a function of the measured values obtained,
- (iv) using a process model and a time-temperature graph as a structural model in order to produce the final product with the desired structure.

The method model is adapted in the event of a deviation from the desired structure.

Since the rolling temperature plays a significant role in determining the structure obtained, D1 anticipates all of the features of claims 1 and 5 in a manner prejudicial to novelty.

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It is noted that in D1, deviations from the desired structure also, of course, have to be detected during the process (implicitly disclosed).

The determination of the value that is significant for the metal structure "at the end of or during the corresponding method process" naturally also has to apply to the regulating method in D1.

- 3. Dependent claims 2-4 contain only optional measures that cannot be essential for solving a generally apparent problem.

 Therefore, these claims do not contain any inventive subject matter.
- 4. At best, a favorable assessment of amended claim 4 could be considered if the claim specified where, when and in which material or which structural component the grain size is measured and, specifically, how the temperature and the progression of a structural transition to be specified with regard to the material are measured.